

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 3/15/02 are:

A. approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require

submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:	2. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
Black ink. Color. _____ Color drawings are not acceptable until petition is granted. Fig(s) _____	Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
3. PHOTOGRAPHS. 37 CFR 1.84(b) _____ Pencil and non black ink not permitted. Fig(s) _____ _____ 1 full-tone set is required. Fig(s) _____ _____ Photographs may not be mounted. 37 CFR 1.84(e) _____ Poor quality (half-tone). Fig(s) _____	4. SCALE. 37 CFR 1.84(k) _____ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
5. TYPE OF PAPER. 37 CFR 1.84(e) _____ Paper not flexible, strong, white, and durable. Fig(s) _____ X Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) <u>15*</u> _____ Mylar, velum paper is not acceptable (too thin). Fig(s) _____	6. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(i) _____ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) _____
7. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: _____ 21.0 cm by 29.7 cm (DIN size A4) _____ 21.6 cm by 27.9 cm (8 1/2 x 11 inches) _____ All drawing sheets not the same size. Sheet(s) _____ _____ Drawings sheets not an acceptable size. Fig(s) _____	8. SHADING. 37 CFR 1.84(m) _____ Solid black areas pale. Fig(s) _____ _____ Solid black shading not permitted. Fig(s) _____ _____ Shade lines, pale, rough and blurred. Fig(s) _____
9. MARGINS. 37 CFR 1.84(g): Acceptable margins: Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Top 2.5cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) _____ _____ Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____	10. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p) _____ Numbers and reference characters not plain and legible. Fig(s) _____ _____ Figure legends are poor. Fig(s) _____ _____ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____ _____ English alphabet not used. 37 CFR 1.84(p)(2) Figs _____ _____ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) _____
11. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) _____ Brackets needed to show figure as one entity. Fig(s) _____ _____ Views not labeled separately or properly. Fig(s) _____ _____ Enlarged view not labeled separately or properly. Fig(s) _____	12. LEAD LINES. 37 CFR 1.84(q) _____ Lead lines cross each other. Fig(s) _____ _____ Lead lines missing. Fig(s) _____
13. SECTIONAL VIEWS. 37 CFR 1.84(h)(3) _____ Hatching not indicated for sectional portions of an object. Fig(s) _____ _____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____	14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i) _____ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
15. NUMBERING OF VIEWS. 37 CFR 1.84(u) X Views not numbered consecutively, and in Arabic numerals beginning with number 1. Fig(s) _____	16. CORRECTIONS. 37 CFR 1.84(w) _____ Corrections not made from prior PTO-948 dated _____
17. DESIGN DRAWINGS. 37 CFR 1.152 _____ Surface shading shown not appropriate. Fig(s) _____ _____ Solid black shading not used for color contrast. Fig(s) _____	BEST AVAILABLE COPY * Remove all descriptive matters. Fig. 15 - Remove all circles around reference numbers - Sectional view A-A', B-B' must be represented by Arabic numbers.

COMMENTS

* Remove all descriptive matters. Fig. 15

- Remove all circles around reference numbers

- Sectional view A-A', B-B' must be represented by Arabic numbers.

REVIEWER TangDATE 12/18/02TELEPHONE NO. 703 308 6038

ATTACHMENT TO PAPER NO. _____